

KALNINS, A. ; STREIPA, P.

Perfecting the methods of resin and tar distillation in the Minsk and analogous-type retorts. p. 65.

BIOLOGICHESKAIA NAUKA; SELSKOMU I LESNOMU KHOZIAISTVU. (Latvijas PSR Zinatnu akademija. Biologijas Zinatnu nodala) Riga, Latvia, No. 16, 1958. In Russian.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 8, August 1959.  
Uncla.

KALNINS, A.

Changes in the structure of assortments in pine-tree stands depending  
on their age. p. 157.

LATVIJAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2,  
Feb. 1960 Uncl.

Kalnins, A.

Effect of soil conditons and vegetation on spreading clover nodule  
bacteria p.3

Latvijas PSR Zinatnu akademija. Mikrobiologijas instituts. TRUDY.  
Riga, Latvia. No.8, 1959

Monthly List of East European Accessions (ERAI) LC, Vol.8, no.11  
November 1959  
Uncl.

KALNINS, Arv.; SURNA, J.

Possibilities of increasing the output of furfurole in wood  
pyrolysis. Vestis Latv ak no.11:107-113 '59. (EEAI 9:11)

1. Latvijas PSR Zinatnu akademija, Mezsaimniecibas problemu  
un koksnes kimijas instituts.  
(Furaldehyde) (Pyrolysis) (Wood)

KALNIN'SH,A.I. [Kalnins,A.], akademik, red.; GILLER, S.A., akademik, red.; SHIVANSKAYA,M.V., kand. khim. nauk, red.; DYMARSKAYA, O., red.; PILADZE, E., tekhn. red.

[Resources of pentosan-containing raw material in the U.S.S.R.]  
Resursy pentozaansoderzhashchego syr'ia v SSSR. Riga, Izd-vo Akad.  
nauk Latviiskoi SSR, 1960. 161 p. (MIRA 14:12)

1. Vsesoyuznyy uchenyy sovet po probleme ispol'zovaniya pentozaanso-  
derzhashchego syr'ia. 2. Akademiya nauk Latviyskoy SSR (for Kalnin'sh,  
Giller).

(Pentosans)

KALNIN'SH, A. [Kalnins, A.]

Achievements of Soviet Latvian chemists in twenty years. In Russian.  
Vestis Latv ak no.7:49-62 '60. (ERAI 10:7)  
(Latvia—Chemistry)

KALNIN'SH, A. [Kalnins, A.]

Recommendation for wood protection. Vestis Latv ak no.8:175-179  
'60.

(EEAI 10:9)

(Wood)

KALNIN'SH,A.[Kalmīns,A.]; KUNDZIN'SH,A.[Kundzīns,A.]

Science of the forest economy to the national economy. In Russian.  
Vestis Latv ak no.7:219-227 '60. (EEAI 10:?)  
(Latvia—Forests and forestry)

BRAKSS, N.;(Riga); ALKSNE, L.; ABOLINS, J.; KALNINS<sup>1</sup>, A. /.

Humic acids of sapropels and peat as adhesives in utilization of wood waste. Vestis Latv ak no.10:101-106 '60.

(EEAI 10:9:10)

1. Latvijas PSR Zinatnu akademija, Mezsaimniecibas problemu un  
koksnes kimijas instituts.

(Sapropels) (Peat) (Humic acids) (Adhesives)

VASIL'YEV, P.V., prof., doktor ekon. nauk; PONOMAREV, A.D.; SOLDATOV, A.G., kand. sel'khoz. nauk; MOTOVILOV, G.P., doktor sel'khoz. nauk; NEVZOROV, N.V., kand. ekon. nauk; LOSITSKIY, K.B., kand. sel'khoz. nauk; RODIONOV, A.Ya., kand. sel'khoz. nauk; CHARKINA, A.P., kand. sel'khoz. nauk; LUTSEVICH, A.A., kand. sel'khoz. nauk; KOZHEVNIKOV, M.G., dots.; ALEKSEYEV, P.V., kand. sel'khoz. nauk; ZORIN, A.V., aspirant; BARANOV, N.I., kand. sel'khoz. nauk [deceased]; NAUMENKO, I.M., prof., doktor sel'khoz. nauk; IL'IN, A.I., kand. sel'khoz. nauk; MOISEYENKO, F.P., kand. biol. nauk; ZAKHAROV, V.K., prof., doktor sel'khoz. nauk; GECHIS, Yu.P., starshiy nauchnyy sotr.; BUTENAS, Yu.P., kand. sel'khoz. nauk; BUBLIS, K.A., aspirant; KALNIN'SH, A.Ya., kand. sel'khoz. nauk; ZVIYEDRIS, A.I., kand. sel'khoz. nauk; SUKACHEV, V.N., akad. red.; ZHUKOV, A.B., prof., red.; PRAVDIN, L.F., prof., red.; MAKAROVA, L.V., red. izd-va; LOBANKOVA, R.Ye., tekhn. red.

[Problems of increasing forest productivity in four volumes] Problemy povysheniia produktivnosti lesov v chetyrekh tomakh. Moskva, Goslesbumizdat. Vol.4. [Economic problems of increasing forest productivity and accelerating ripening and cutting ages] Ekonomicheskie voprosy povysheniia produktivnosti lesov, vozrasty spelosti i vozrasty rubok. 1961. 253 p. (MIRA 15:1)

1. Akademiya nauk SSSR. Institut lesa. 2. Nachal'nik Glavnay inspeksii po lesonomu khozyaystvu i polezashchitnomu lesorazvedeniyu Ministerstva sel'skogo khozyaystva SSSR (for Ponomarev).

(Forests and forestry—Economic aspects)

BELYAKOV, G.; ERMUSH, N. [Ermusa, N.]; KALNIN'SH, A. [Kalnins, A.]

Possibilities for the utilization of hydrophobic sand treated with wood tar. Vestis Latv ak no.3:85-90 '61.

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latviyskoy SSR.

KALNIN'ISH, A. [Kalnins, A.]

Seventieth birthday of Academician Petr Nikitich Odintsov. Vestis  
latv ak no.3:117-122 '61.

KALNIN'SH, A.[Kalnins, A.]; ZANDERSON, Ya.[Zandersons, J.]

Resin content in the sapwood of turpentined pine trees. Vestis Latv  
ak no.6:143-152 '61.

1. Akademiya nauk Latviyskoy SSR, Institut lesokhozyaystvennykh problem  
i khimii drevesiny.

(Gums and resins) (Pine)

KALNIN'SH, A. [Kalinins, A.]

New problems in the Chemistry and Geology Section of the Academy of Sciences of the Latvian S.S.R. Vestis Latv ak no.7:127-128 '61.

(Latvia—Chemical Research)  
(Latvia—Geological Research)

KALNINS, A.

KALNINS, A.; ZVIYEDRIS, A. [Zviedris, A.]

Prospects of forestry development in the Latvian S.S.R. Vestis Latv ak  
no.8:117-120 '61.

1. Akademiya nauk Latviyskoy SSR, Institut lesokhozyaystvennykh problem  
i khimii drevisiny.

ODINTSOV, P.N.; KALNIN'SH, A.I. [Kalnins, A.]; KAL'NINA, V.K.; CHEPIGO, S.V.;  
SHNAYDER, Ye.Ye.; SHPUNTOVA, M.Ye.

Hydrolysis of plant materials by concentrated sulfuric acid.  
Gidroliz. i lesokhim.prom. 14 no.3:1-4 '61. (MIRA 14:4)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny Akademii  
nauk Latviyskoy SSR (for Odintsov, Kalnin'sh, Kal'nina). 2. Nauchno-  
issledovatel'skiy institut gidroliznoy i sul'fitnoy spirtovoy  
promyshlennosti (for Chepigo, Shnayder and Shpuntova).  
(Hydrolysis) (Wood--Chemistry)

GOLOVA, O.P.; EPSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalinins, A.];  
ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.; Prinimaji  
uchastiye: MERLIS, N.M.; DURININA, L.I.; BISENIYETSE, S.K. [Biseniecs, S.];  
GUNDARS, A.Yu.; FEDORCHENKO, R.I.; MINAKOVA, V.I.

New method for the complete chemical processing of plant tissues.  
Gidroliz. i lesokhim. prom. 14 no.7:4-8 '61. (vira 14:11)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn, Merlis, Durinina).
2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latviyskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov, Bisenietse, Gundars).
3. Krasnodarskiy gidroliznyy zavod (for Maksimenko, Fedorchenko, Minakova).
4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk).

(Plant cells and tissues)  
(Botanical chemistry)

KALNIN'SH, A.I. [Kalnins, A.]; RASIN'SH, P.P. [Rasins, P.]

Two-storied pine tapping with the application of sulfuric acid in  
the lower story. Gidroliz. i lesokhim. prom. 14 no.7:19 '61.  
(MIRA 14:11)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN  
Latviyskoy SSR.

(Turpentining)  
(Sulfuric acid)

SERGEYEVA, Varvara Nikolayevna; DOMBURG, Galina Eduardovna;  
KALNIN'SH, A.I.[Kalnins, A.I.], akademik, red.; DYMARSKAYA, O.,  
red.; LEMBERGA, A., tekhn, red.

[Formation of furfurole and methods for its production]Obr-a-  
zovanie furfurola i metody ego polucheniia. Pod red. A.I.Kal-  
nin'sha. Riga, Izd-vo Akad. nauk Latviiskoi SSR, 1962. 83 p.  
(MIRA 15:9)

1. Akademiya nauk Latviyskoy SSR (for Kalnin'sh).  
(Furaldehyde)

KALNIN'SH, Arvid Yanovich[Kalnins, Arvids], akademik; GORSHIN, S. N.,  
retsenzent; BARAKS, A. M., red.; GOSPODARSKAYA, T. N., red.  
izd-va; GRECHISHCHEVA, V. I., tekhn. red.

[Preservation of wood]Konservirovanie drevesiny. Moskva, Gos-  
lesbumirdat, 1962. 143 p. (MIRA 16:3)

1. Starshiy nauchnyy sotrudnik TSentral'nogo nauchno-issledova-  
tel'skogo instituta mekhanicheskoy obrabotki dereva (for Gorshin).  
(Wood--Preservation)

KALNYN'SH, A. [Kalinins, A.]

Changes in the stand structure of pine forests under the effect  
of drainage. Vestis Latv ak SSR no.8:113-116 '62.

1. Institut lesokhozyaystvennykh problem i khimii drevesiny  
AN Latviyskoy SSR.

GOLLOVA, O.P.; ERSHTEYN, Ya.V.; SERGEYEVA, V.N.; KALNIN'SH, A.I. [Kalnins, A.];  
ODINTSOV, P.N.; MAKSIMENKO, N.S.; PANASYUK, V.G.

Outlook for a new method of complete processing of plant materials.  
Gidroliz.i lesokhim.prom. 15 no.3:12-15 '62. (MIRA 15:5)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR (for Golova, Epshteyn).
2. Institut lesokhozyaystvennykh problem i khimii drevesiny AN Latvianskoy SSR (for Sergeyeva, Kalnin'sh, Odintsov).
3. Krasnodarskiy gidroliznyy zavod (for Maksimenko).
4. Dnepropetrovskiy sel'skokhozyaystvennyy institut (for Panasyuk).  
(Wood—Chemistry) (Hydrolysis) (Plant cells and tissues)

BETNART, I.I.; KALNIN'SH, A.I. [Kalnins, A.]

Wood hydrolysis by means of small amounts of concentrated sulfuric acid in the presence of organic liquid. Gidroliz.i  
lesokhim.prom. 15 no.6:3-5 '62. (MIRA 15:9)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny  
AN Latviyskoy SSR.  
(Latvia—Wood—Chemistry)

KALNINS, A., prof.

A new method of hydrolysis by using concentrated sulfuric acid. Drevo 17 no.5:146-147 My '62.

1. Institut lesocojzajstvennych problem i chimii drevesiny Akademii nauk Latvijskoj SSR.

KALNIN'SH, A.I. [Kalnins, A.] akademik; ODINTSOV, P.N., akademik  
Chemistry of wood pulp. Vest. AN SSSR 32 no.2:57-61 F '62.  
(MIRA 15:2)  
1. AN Latviyskoy SSR (for Kalnin'sh, Odintsov).  
(Woodpulp)

KALNIN'SH, A.I. [Kalnins, A.]; RASIN'SH, P.P. [Rasins, P.]

Importance of the location for the application of sulfuric acid on  
the streak surface. Gidroliz. i lesokhim.prom. 16 no.1:25 '63.  
(MIRA 16:2)

1. Institut lesokhozyaystvennykh problem i khimii drevesiny AN  
Latviyskoy SSR.  
(Turpentining)

TULYAKOV, B.V.; KALNIN'SH, A.I. [Kalnins, A.]; ROMANOVSKIY, G.G.; RASIN'SH, P.P.  
[Rasina, P.]

Urgent tasks of the technological progress in pine tapping. Gidroliz.  
i lesokhim.prom. 16 no.8;1-3 '63. (MIRA 17;1).

KALNIN'SH, A.I. [Kalnins, A.], akademik

Plasticized cellulose. Vest. AN SSSR 34 no.5:79-85  
(MIRA 17:6)  
My '64.

1. AN Latviyskoy SSR.

KALNIN'SH, A.I. [Kalnins, A.], prof., akademik

Competitor of metals; plasticized wood. Priroda 53  
no.9:76-80 '64.

1. AN Latviyskoy SSR, Riga.

(MIRA 17:10)

KALNIN'SH, A.I. [Kalnins, A.]; DARZIN'SH, T.A. [Darzins, T.];  
BERZIN'SH, G.V. [Berzins, G.]

Plasticization of wood by preliminary treatment with  
ammonia. Der. prom. 13 no. 5:11-13 My '64.

(MIRA 17:6)

KALNIN'SH, A.I. [Kalnins, A.], akademik

Interesting book on wood chemistry. Gidroliz. i lesokhim. prom.  
17 no.3:30 '64.  
(MIRA 17:9)

1. AN Latviyskoy SSR.

KALNIN'SH, A.I. [Kalnins, A.]; RASIN'SH, P.P. [Rasins, P.] {deceased};  
- TSAKARS, E.Ya. [Cakars, E.]

Ten-year pine tapping with the use of diluted sulfuric acid.  
Gidroliz. i lesokhim. prom. 17 no.7:17-19 '64.  
(MIRA 17:11)

ACC NR:	AP6009867	(A)	SOURCE CODE:	UR/0413/66/000/004/0065/0065
INVENTOR: <u>Kalnin'sh, A. I.</u> ; <u>Rakin, A. G.</u> ; <u>Berzin'sh, G. V.</u> ; <u>Sheydin, I. A.</u> ; <u>Darzir'sh, T. A.</u> ; <u>Muzhits, V. I.</u> ; <u>Dorin, Yu. G.</u> ; <u>Ziyemelis, A. E.</u> ; <u>Churina, Ye. A.</u>				
ORG:	none			
TITLE: Preparation of wood plastics. Class 38, No. 178971 [announced by the Institute of Wood Chemistry AN LatSSR (Institut khimii drevesiny AN Latviyskoy SSR) and Central Scientific-Research Institute of Plywood (Tsentral'nyy nauchno-issledovatel'skiy institut fanery)]				
SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 4, 1966, 65				
TOPIC TAGS: plywood, wood chemistry, wood plastic, forest product				
ABSTRACT: An Author Certificate has been issued describing a method of preparing wood plastics. To improve the physical and mechanical properties of the end product and lower the amount of <u>binder</u> for making wood plastic from veneer sheets or ground wood, the latter are treated, prior to pressing, with a 25-percent solution of ammonia for 4 hr at 18--20°C. The treated sheets are combined with untreated sheets during pressing. [LD]				
SUB CODE:	11/	SURN DATE:	25Jan65	
Cord	1/1	vlr	UDC:	674.812.2

KALNINS, E. [Kalnins, E.]; ANSHELEVICH, Yu.

Experience in using bicillin-3 in the therapeutic clinic. In  
Russian. Vestn Latv ak no.4:183-184 '60. (EAAI 10:7)  
(BICILLIN)

KURSK, Yu. S., LYALIKOV, K. P., KALINISH, K. E.

Photochemical reaction in the solid liver of polyvinyl chloride.  
Zhur. fiz. khim. 59 no. 8; 1886-1989 Ag 165. (MFRA 18:9)

1. Leningradskiy institut klimaticheskoy i tekhnicheskoy  
ekologicheskoy raboty.

KALNIN'SH, K.K.; BELEN'KIY, B.G.

Dissociation of tetracyclines studied by means of infrared  
spectroscopy. Dokl. AN SSSR 157 no.3:619-621 J1 '64.  
(MIRA 17:7)

1. Institut vysokomolekuljarnykh soyedineniy AN SSSR. Pred-  
stavлено akademikom M.M. Shemyakinym.

KALNIN'SH, K.K.; MOSKVICHEV, B.V.; DMITRENKO, L.V.; BELEN'KIY, B.G.; SAMSONOV,  
G.V.

Infrared spectra of amino acids in a sorbed state. Izv. AN SSSR.  
Ser. khim. no.10:1897-1899 '65. (MIRA 18:10)

1. Institut vysokomolekulyarnykh soyedineniy AN SSSR.

REYZIN'SH, R.E. [Reizins, R.E.], inzh.; KALNIN'SH, L.R. [Kalnips, L.R.], inzh.

Effect of fractional beating on the quality of woodpulp. Bum.prom.  
34 no.3:16-18 Mr '59. (MIRA 12:4)  
(Woodpulp)

KAL'NINSH, M.

KAL'MYNSH, M., inzh. [Kalnīns, M.]

Some problems in producing clay tiles. Stroi. mat. 4 no. 7:17-19  
J1 '58. (MIRA 11:7)

(Tiles, Roofing)

KALNINS, M.

Kimija lauksaimnieciba; metodiski noradijumi kimijas un biologijas skolotajiem.  
Riga, Latvijas valsts izdevnieciba, 1956. 110 p. (Chemistry in agriculture;  
methodological directions for teachers of chemistry and biology)

DA Not in DLC

SO: Monthly Index of East European Accession (MIEA) LC. Vol. 7, No. 5, 1958

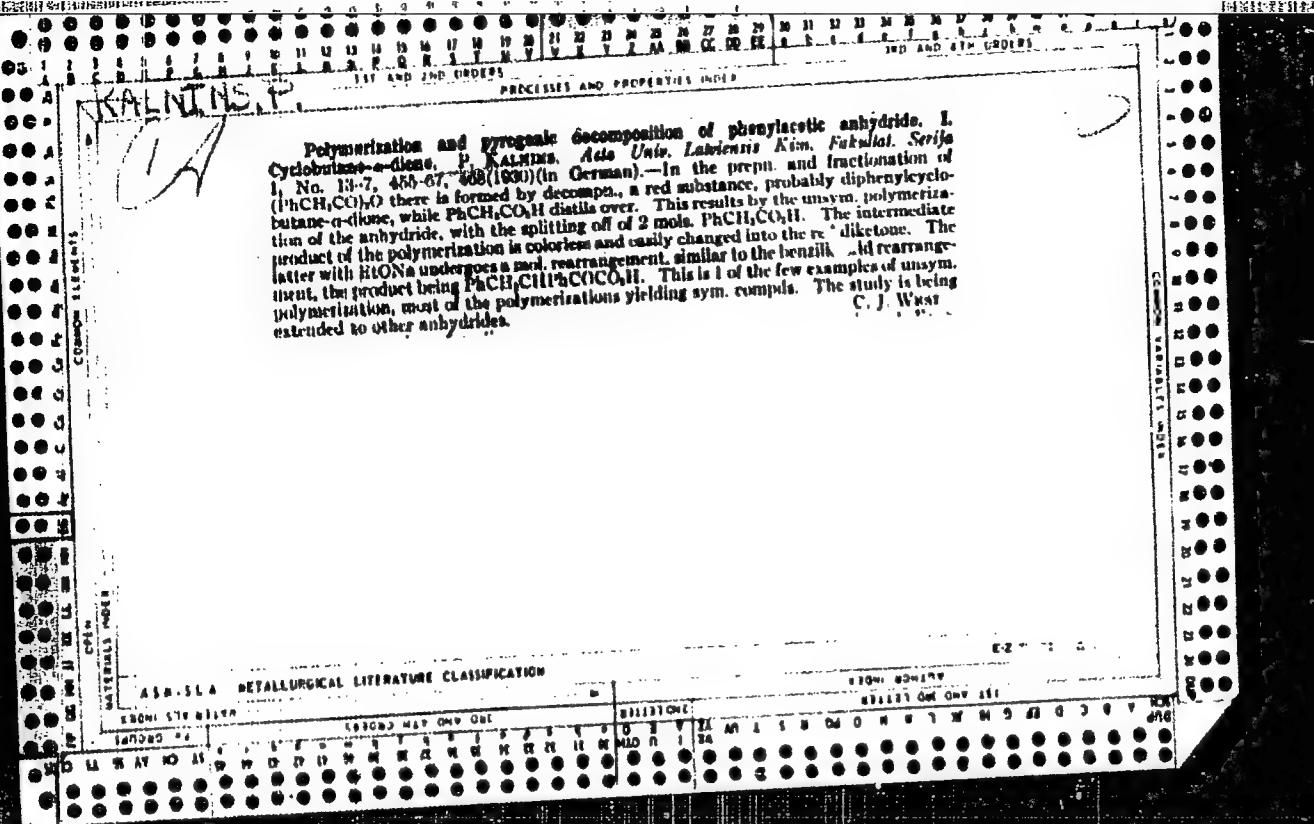
EIDUKS, Julijs; KALNINS, Martins; MACEJEVSKA, E., red.; AIZUPIETE, M.,  
tekhn. red.

[Minerals of the Latvian S.S.R. and their use] Latvijas PSR  
derigie izrakteni un to izmantosana. Riga, Latvijas Valsts  
izdevnieciba, 1961. 430 p. (MIRA 15:3)  
(Latvia--Mines and mineral resources)

ABKLE, E., nauchnyy sotrudnik; KAL'NYN'SH, O.[Kalnins,O], nauchnyy sotrudnik

Fertilize hothouse crops correctly. Nauka i pered.op.v sel'khoz.  
9 no.1:61 Ja '59. (MIRA 13:3)

1. Latviyskiy nauchno-issledovatel'skiy institut zemledeliya.  
(Fertilizers and manures) (Greenhouse management)



## KETENEN, P.

**PROCESSES AND PROPERTIES INDEX**

BC

A-3

Mercuration of "acetone anil." P. KALNIN  
 (Latvij. Univ. Raksti, 1938, 3, 315-320).—The condensation product of COMe and NH<sub>2</sub>Ph yields a Hg derivative containing 33-47% Hg, probably C<sub>11</sub>H<sub>12</sub>NHg(OAc)<sub>2</sub> (one OAc group being in a special position). This is reduced by H<sub>3</sub>PO<sub>3</sub> to a base with an colour of quinoline. A. I. I.

(b) (1)

Oxidation of furan to maleic anhydride by atmospheric oxygen in vapor-liquid phase over a catalyst from oxides of vanadium. P. Kalinin, S. Miller, and M. Tarvild-Landis. *PSJ (Soviet Patent)* 1951, 413-52. Passage of air-furan mixt. through a glass tube over  $V_2O_5$ -pumice catalyst gave the following conversions to maleic anhydride. The best results are had with 3 sec. contact and a molar ratio of air to furan of 120-190 at 325°, when an 81-3% yield is secured (98-1% taking into account unreacted furan). It is suggested that the reaction proceeds by formation of the 2,5-di-HO deriv., which yields the 2,5-oxo deriv. or suffers ring cleavage with formation of  $HO_2CCH_2CH_2CHCHO$ , which yields a lactone. Over a pure  $V_2O_5$  catalyst some 27% furan is oxidized to  $CO_2-H_2O$  and only 18% yields maleic anhydride; when the catalyst is fully "developed" with use and consists largely of  $V_2O_5$ , some 46% conversion to maleic anhydride occurs. The high yields cited above result from a catalyst consisting of both  $V_2O_5$  and  $V_2O_4$ . G. M. K.

*my*

Catalytic oxidation of furfural in vapor gas phase with air oxygen. M. Tsvet, S. Miller, and P. Kalinik. *Zhurn. RKh. Zashchita Akat.* 1952, No. 3, p. 37-39. In Russian. Numerous types of V-bearing catalysts, with and without support, were investigated for their activity in catalyzing the oxidation of furfural vapor to maleic acid with air at atom. pressures and 200-375°. Typical catalysts were:  $V_2O_5$  (I) on alumina,  $V_2O_5$  on Al, 30 g per 100 ml. of the carrier, 5.5 I and 10.3 TiO<sub>2</sub> on alumina; 11.8 I, 5.0  $MnO_2$ , 0.85  $Co_2O_3$  on alumina, 21  $Al_2O_3$  on alumina; 6.7 I, 1.0  $MnO_2$ , 1.1  $P_2O_5$ , 0.3  $Fe_2O_3$  on alumina; 10.2 I, 3.6  $MnO_2$ , 1.0  $Bi_2O_3$ , 1.8  $TiO_2$  on Al<sub>2</sub>O<sub>3</sub> on alumina. The selected thoroxides were placed on the carrier from a thin suspension by a slow evap. of the corresponding salt, oxide, and carrier mixt., with or without addition of "sacrificial" organic binders. The catalysts were slowly dried at 100° in air stream, followed by a gradual heating to 300° within 12 hrs., and holding at 320° for another 12 hrs. The final activation was achieved by heating for 30 hrs. at 370° in a rapid air stream. One-pass conversions of 76-89% were obtained with the best mixed oxide catalyst, with no decrease in activity for 300 hrs. The air-furfural molar ratios were 100:1 to 200:1, and the contact times 0.75-2 sec. The best catalyst was II, and the optimal conditions: air-furfural molar ratio 180:1 to 210:1, temp. 270°, contact time 1.5 sec.; 87% of furfural was oxidized, yielding 40% maleic acid. Andrew Draynoks.

M. Draynoks

U S S R .

Condensation of 1,3-butadiene with acetone in presence  
of alkaline catalyst and structure of the condensation  
products. P. Kalnītā, Latvijas PSR Zinātūs Akad.  
Vidus 1958, No. 9 (Whole No. 80), 129-36 (in Russian).—In  
Latvian with MeCO at room

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probably and the IV is purpose.

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000620210008-2"

KALNINSH R.

Method of measurement of complex magnetic permeability of ferrite // R. Kalnīns. Latvijas PSR Zinātņu Akad. Vārds 1960, No. 1, 77-0. — The effect of losses in the coil on the measurement of a toroidal sample were detd. Because the magnetic circuit is closed the magnetic losses are detd. and poor-quality coils can be used. The error of conventional Q-meters (5%) facilitates the choice of coil.  
A. Libatkyj

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KALNINS, T.

Study of magnetic beta spectrometer model with constant magnets. In  
Russian. p. 49.

LATVIJAS PSR ZINATNU AKADEMIJA. VESTIS. RIGA, LATVIA. No. 7, 1959

Monthly List of East European Accessions. (EEAI) LC, Vol. 9, no. 2,  
Feb. 1960 Uncl.

KUKAIN, R. [Kukaine, R.]; INDULEN, M. [Induléna, M.]; KANEL', I. [Kanele, I.];  
KONDRASHOVA, M.; KALNINYA, B. [Kalnina, V.]; VOLRAT, A. [Volrate, A.];  
FELDMAN, G. [Feldmans, G.]; NAGAYEVA, L.; PAYLOVA, M.; POPOVA, V.

Characteristics of the tuberculin tests in children inoculated  
during early infancy with ~~peroral~~ BCG vaccine and live poliomyelitis  
vaccine. Vestis Latv ak no.7:115-117 '62.

1. Institut mikrobiologii AN Latviyskoy SSR.

KALNINYA E

LATVIA/Organic Chemistry - Natural Compounds and Their  
Synthetic Analogs.

G.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54148

Author : Villere G., Grinshtains V., Kalninya E.

Inst : Latv. University.

Title : Investigation of Usnic Acid and Its Derivatives.

Orig Pub : Uch. Zap. Latv. un-t, 1957, 14, 63-78.

Abstract : The isolation of (+)-Usnic acid (I) was made from the Usnea Ramalina and the Gladonia varieties of lichens; the concentration of I in Usnea hirta is as high as 3.8%. Usnamide (II), m. p. 251°C. (from acetic acid), was prepared by boiling I with ammonium hydroxide in a mixture of alcohol and benzene, or acetic acid plus sodium acetate. When I is heated at 80°C. for thirty minutes, or at 20°C. for thirty minutes to forty-eight

Card 1/4

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LATVIA/Organic Chemistry - Natural Compounds and Their  
Synthetic Analogs.

6.

Abs Jour : Ref Zhur - Khimiya, No 16, 1958, 54148

hours with liquid ammonia, there is formed a mixture of products which probably are II and the diamide of I,  $C_{18}H_{18}O_5N_2$  (III). The condensation of I with diphenyl

hydrazine in alcohol (boiled for 2.5 hours) probably resulted in the formation of bis-diphenyl hydrazone of I,  $C_{42}H_{36}O_5N_4$ ; this material does not melt at 250°C.

It was not possible to prepare the corresponding amines by the reduction of the above compound (or the reduction of II, or the oxime of I). When alcoholic solutions of nitrogen-containing compounds are boiled with I, condensation products are obtained (given are: the starting material, the composition of of the reaction product, and its melting point in °C);

Card 2/4

SVIREZHEV, M.V.; KAL'NITS, V.V.

Allarthroplasty of the knee joint following tuberculous gonitis;  
preliminary report. Ortop., travm. i protez. no.9:40-44 '62.  
(MIRA 17:11)

1. Iz Novosibirskogo instituta tuberkulyza (dir. - zasluzhennyj  
vrach RSFSR kand. med. nuk M.V. Svirezhev).

KAL'NITS, V.V.

Experimental data on the use of polyvinylformal in alloarthroplasty  
in tuberculous lesions of the joints. Eksper. khir. i anest. 9 no.1:57-  
59 Ja-F '64. (MIRA 17:12)

1. Novosibirskiy nauchno-issledovatel'skiy institut tuberkuleza (dir. -  
zasluzhennyy vrach RSFSR kand. med. nauk M.V.Sverezhev).

STEPANOVA, O.S.; TISHCHENKO, O.I.; DROZDOVSKAYA, A.I.; KAL'NITSKAYA, E.A.;  
PANCHUK, T.D.; YATSENKO, Ye.A.

Synthesis of some  $\alpha$ -halo ethers. Zhur. VKhO 8 no.5:598-  
599 '63. (MIRA 17:1)

1. Odesskiy gosudarstvennyy universitet imeni Mechnikova.

KOGAN, A.A., prof.; KAL'NITSKAYA, F.Ye.; IZAMSHAYEVA, A.I.;  
LEVINA, L.M., red.; ISAKOV, A.A., tekhn. red.

[Emergency aid in obstetrics] Neotlozhnaya pomoshch' v  
akushерстве; posobie dlia akusherok. Tashkent, Medgiz,  
USSR, 1962. 119 p. (MIRA 16:7)  
(OBSTETRICS)

1. KALNITSKIY, A. A.
2. USSR (600)
4. Concrete - Testing
7. Problem of methodology in determining the durability of concrete. Stroi.prom.  
30 no. 12 1952
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

KAL'NITSKIV, A.A. (Moskva)

Designing girders taking into account plastic deformations. Stroi.  
mekh. i rasch. soor. 3 no.1;24-25 '61. (MIRA 14:2)  
(Girders) (Strains and stresses)

VAYNBERG, G.D., inzh.; YEVTIKHIN, V.F., kand. tekhn. nauk; KAZAKOV, I.V., inzh.; KAL'NITSKIY, A.A., kand. tekhn. nauk; NIKOLAYEV, N.A., kand.tekhn.nauk, nauchn. red.

[Asbestos cement elements in rural construction for residential, cultural, and industrial buildings] Asbestotsementnye konstruktsii v sel'skom stroitel'stve dlja zhilykh, kul'turno-bytovykh i proizvodstvennykh zdanii. [By] G.D.Vainberg i dr. Moskva, Stroizdat, 1965. 63 p. (MIRA 18:3)

KAZAKOV, I.V., inzh.; KAL'NITSKIY, A.A., kand. tekhn. nauk

Use of asbestos cement articles in construction. Stroi. mat. 7  
no.9:14-17 S '61. (MIRA 14:11)  
(Asbestos cement)

KAL'NITSKIY, A.A., kand.tekhn.nauk; KROL', I.S., inzh.

Coefficients of homogeneity of asbestos cement. Trudy  
NIIAsbestsementa no.14:63-70 '62. (MIRA 16;9)

KAL'NITSKIY, A. I.

V. A. Alikayev, author of Zoogigiena s osnovami veterinarii ("Animal Hygiene and Principles of Veterinary Medicine"). Adapted for local conditions and supplemented by A. I. KAL'NITSKIY. Kishinev, Moldavgiz, 1951. 88 pages (Ministry of Agriculture of the Moldavian SSR. Main Administration of Agricultural Propaganda). Price 2 rubles. 15,000 copies. In the Moldavian and Kazakh languages. (from: NEW BOOKS ON VETERINARY MEDICINE Veterinariya, No. 11, pp. 63,64, Nov. 1951, Moscow, Russian no per.)

SO: [REDACTED] Report U-4502; 28 August 1953. [REDACTED]

KAL'NITSKIY, A. I.

Veterinary Medicine

Chimishliia veterinary section. Sots. zhiv. 14 no. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August <sup>2</sup> 1951, Uncl.

VAL'NITSKII, B. P.

The MK-53KB special purpose semiautomatic multicut lathe.  
Biul. tekhn.-ekon.inform. no.7:23-25 '60. (MIRA 13:7)  
(Lathes)

84-58-6-41/59

AUTHOR: Kal'nitakiy, I. (Nikolayev)

TITLE: Airmen Help Schoolboys (Aviaryabotniki pomogayut shkol'nikam)

PERIODICAL: Grazhdanskaya aviatsiya, 1958, Nr 6, p 33 (USSR)

ABSTRACT: The short note reports the establishment of an "aero-club" at the Nikolayev "Pioneer Palace". The club has two Yak-18 training planes, a BRO-11 glider and a sectional M-11 engine for instruction. The instructors are the local airport specialists. A photograph accompanies the text.

1. Civil aviation--USSR    2. Personnel--Training

Card 1/1

KALNICKIJ, J.B. [Kal'nitskiy, I.B.], doc., kandidat technickych ved;  
PELNAR, Antonin, inz., dr. [translator]

Conditions and elements of automation in ore mines.  
Rudy 10 no.8:251-253 Ag '62.

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy  
nikelevoy promyshlennosti (for Kalnickij).

KAL'NITSKIY, L. (g.Kiyev); VITVITSKAYA, Z. (g.Kiyev)

An electric checking device for a swift. Prom.koop. 13 no.5:9  
My '59. (MIRA 12:9)

1. Glavnyy inzhener arteli "Kiyevtrikotazh" (for Kal'nitskiy).  
2. Nachal'nik otdela tekhnicheskogo kontrolya arteli "Kiyevtrikotazh".

(Textile machinery)

CHELNOKOV, I.I., doktor tekhn.nauk, prof.; KAL'NITSKIY, L.A., kand.  
tekhn.nauk, dotsent

Forced vibrations of the system "wheel pair load on a spring  
assembly with bilinear elastic characteristics." Sbor.trud.  
LIIIZHT no.183:55-68 '62. (MIRA 16:2)  
(Car springs--Vibration)

K. I. BUTBEN, L. A., kand. tekhn. nauk, dotsent

Vibrations of the body of two-axle cars with conical springs  
in the vertical-longitudinal plane of symmetry. Sber. trud.  
IZIZKT no. 215-110-127 '64. (MIRA 17:12)

KAL'NITSKIY, L.A.; VOL'PE, L., red.

[Higher mathematics; differential calculus of functions  
of one and several variables] Vysshiaia matematika; dif-  
ferentsial'noe ischislenie funktsii odnoi i neskcl'kikh  
peremennykh. Leningrad, Severo-Zapadnyi zaochnyi politekhn.  
in-t. 1965. 74 p. (MIRA 18:11)

ABRAMKIN, Roman Pavlovich; KAL'NITSKIY, R.Ya. [Kal'nyts'kyi, R.IA.],  
red.; LIMANOVA, M.I. [Lymanova, M.I.J., tekhn.red.

[Cooperative collective-farm construction; from the experience  
of the Novaya Vodolaga Cooperative Construction Organization]  
Mizhkolhospne budivnytatvo; z dosvidu Novovodolaz'kho mizh-  
kolhospbudu. Kharkiv, Kharkiv's'ke knyzhkove vyd-vo. 1960.  
(MIRA 14:4)  
35 p.

1. Nachal'nik soveta Novovodolaz'skogo meshkolkhozstroya (for  
Abramkin).  
(Novaya Vodolaga District--Construction industry)

KAL'NITSKIY, L. B.

7680. KAL'NITSKIY, L. B. --Besprovolochnyy greben' dlya obrazovaniya pervogo petel'nogo ryade izdelyi na ploskofangovykh mashinakh. M., KOIZ, 1954. 5 S. S. chert.  
21 sm. (tsentr. sovet promysl. koperatsii SSSR. Tekhn. upr. Obmen proizvod-  
tekhn-opyтом. Inform. listok. 697.500 ekz. bespl.-avt. ykazan v kontse  
teksta.-- (55-347 zh)

677.661.05

SO: Knizhnaya Letopis', Vol. 7, 1955

3461 KAL'NITSKIY, L. B.

Tsepnoy stezhok dlya otdelki izdel'iy verkhnego trikotazha. M.,  
KOIZ 1954. 5s vkljuch. obl., s ill 21 s m. (Tsentr. sovet promysl.  
koope atsii SSSR. tekhn. upr. obmen proizvod-tekhn. opytom. inform.  
listok. 53) 500 ekz Bespl. avt. ukazan v kontse teksta. (54-14383 zh)  
677.661.027

KAL'NITSKIY, L.B., inzhener

Comments on the article "Wider utilization of the possibilities of  
knitting machines." Leg.prom.14 no.2:38-39 F '54. (MIRA 7:5)  
(Knitting machines) (Maksimov, IU.A.)

KAL'NITSKIY, L.B., inzhener.

Substituting twisted cotton yarn for thread. Leg.prom. 14 no.8:  
21 Ag '54. (MIRA 7:8)  
(Yarn)

KAL'NITSKIY, L.B., inshener

The relation between yarn number and the type of flat cardigan  
stitch knitting machine used. Leg. prom. 15 no.6:21-23 Je '55.  
(Knitting machines) (MLRA 8:8)

KAL'NITSKIY, L.B., inzhener.

Systematically erroneous approach. Leg.prom. 15 no.12:23-24  
D '55. (MIRA 9:5)

(Knit goods industry)

KAL'NITSKIY, L. (Kiyev).

Scissors cutting by electric power. Prom. koop. 12 no.3:9 Mr '58.  
(MIRA 11:3)

L. Artel' "Kiyevtrikotazh".  
(Scissors and shears)

KAL'NITSKIY, L.B.

Discussing again the flat purl knitting machines. Tekst.prom.22  
no.3:75-77 Mr '62. (MIRA 15:3)

1. Glavnnyy inzh.eksperimental'noy fabriki Kiyevskogo Doma modeley  
trikotazhnykh izdeliy.  
(Knitting machines)

KAL'NITSKIY, L.B.; YELEN, A.I.

New methodology for setting the norms of raw materials in  
the manufacture of knit outerwear garments. Tekst. prom. 23  
no.12:48 D '63. (MIRA 17:1)

1. Glavnnyy inzh. eksperimental'noy fabriki Kiyevskogo Doma  
modeley trikotazhnykh izdelyi (for Kal'nitskiy). 2. Nachal'-  
nik proizvodstvennogo otdela eksperimental'noy fabriki  
Kiyevskogo Doma modeley trikotazhnykh izdelyi (for Yelen).

KAL'NITSKIY, L.B. [Kal'nyts'kyi, L.B.]

Manufacture of fancy knit fabrics on the interlock knitting  
machine. Leh.prom. no.1:12-15 Ja-Mr '64.

(MIRA 19±1)

KAL'NITSKIY, L.B.

Review of S.Kh.Simin and M.S.Mirkin's book "Multisystem circular interlock knitting machines." Tekst.prom. 25 no.2:78-80 F '65.  
(MIRA 18:4)

1. Glavnnyy inzh. eksperimental'noy fabriki Kiyevskogo doma modeley.

KAL'NITSKIY, L.B. [Kal'nyts'kiy, L.B.]

Manufacture of "cover" type tuck-figured fabrics on the inter-lock knitting machine. Leh. prom. no.3:23-26 JI-S '65. (MIRA 18:9)

KAL'NITSKIY, I.B.

Some causes of stripes in knitted fabrics manufactured on flat  
fang type knitting machines. Izobekh. prom. № 50. № 41-44. Mr '55.  
(MIRA 18-5)

1. Nachal'nik proizvodstvennogo etazha respektatsiia kachestva  
modelей трикотажных изделий Трикотажного завода  
khozyaystva.

KAL'NITSKIY, L.B.; YELIN, A.I., starshiy nauchnyy sotrudnik

Effect of the magnitude of the shed of a flat latch-needle  
knitting machine on the indices of double-rib cloth. Tekst.  
prom. 25 no.5:43-47 My '65. (MIRA 18:5)

1. Nachal'nik sektora poshiva trikotazha Ukrainskogo nauchno-  
issledovatel'skogo instituta (for Kal'nitskiy). 2. Sektor  
poshiva trikotazha Ukrainskogo nauchno-issledovatel'skogo  
instituta (for Yelen).

KAL'NITSKIY, M.G.

Intratracheal nitrous oxide anesthesia in surgical gynecology.  
(MIRA 16:10)  
Akush. i gin. no. 2:44-47'63.

1. Iz akushersko-ginekologicheskoy kliniki lechebnogo fakul'-  
teta (zav. -- prof. A.M.Foy) Saratovskogo meditsinskogo insti-  
tuta.

(GINECOLOGY, OPERATIVE) (NITROUS OXIDE)  
(INTRATRACHEAL ANESTHESIA)

KAL'NITSKIY N. F.

127-58-1-22/28

AUTHORS: Volkov, K.D.; Grudin, B.M., and Kal'nitskiy, N.F., Engineers

TITLE: Drifting. Scraper- Hopper-Train (Prokhodcheskiy skrepernyy poyezd-bunker)

PERIODICAL: Gornyy Zhurnal, 1958, Nr 1, pp 72-74 (USSR)

ABSTRACT: A drifting, scraper hopper-train was designed, manufactured and applied for drifting a cross in the Belousovo mine early in 1957. This hopper-train of the PSPB-1 type consists of individual car sections installed on the carriages of VOK-80 cars, a loading car, and an unloading car, shown in Figures 2, 3 and 4. When the train is being composed, individual sections enter into each other forming thereby a continuous trough-hopper. A scraper winch is installed on a separate carriage and it moves a 0.15 m<sup>3</sup> scraper with which the rock is transported from the loading machine into the hopper-train. The technical characteristics of the hopper-train are as follows: the capacity is 25 cu m; the efficiency in loading is 30 cu m/hr and in unloading is 40 cu m/hr; the length is 31,000 m, the width is 1,200 mm and the height is 1,700 mm. The experience of using the PSPB-1 justifies

Card 1/2

Drifting, Scraper- Hopper-Train

127-58-1-22/28

the conclusion that 100 or 150 m per month can become the average speed of drifting horizontal workings.  
The article contains 4 figures and 1 photo.

ASSOCIATION: Belousovskaya rudoupravleniye, Vostochno-Kazakhstanskaya oblast'  
(Belousovka Mine Administration, East-Kazakhstan Oblast')

AVAILABLE: Library of Congress

1. Cargo vehicles-Mines 2. Mines-Equipment 3. Ores-Transportation

Card 2/2

Kal'nitskiy, N.N.

USSR/Chemical Technology - Chemical Products and Their  
Application. Electrochemical Manufacturing. Electro-  
deposition. Chemical Sources of Electrical Current.

H-6

Abs Jour : Referat Zhur - Khimiya, No 1, 1958, 1950

Author : Kal'nitskiy N.N.

Inst : Scientific Students Society of the L'vov Commercial-  
Economic Institute.

Title : New Electric Gas-Coulometer and the Prospects of Its  
Utilization.

Orig Pub : Zap. nauchn. stud. o-va. L'vovsk. torgovo-ekon. in-t,  
1957, No 1, 60-63

Abstract : Due to the use of shunted current the measurement range  
of the gas coulometer, proposed by N.S. Krugov and based  
on electrolysis of a 15% NaOH solution in a cell with  
Ni-electrodes, can be considerably expanded.

Card 1/1

S/078/63/008/002/006/012  
B101/B186

AUTHORS: Belyayev, I. N., Smolyaninov, N. P., Kal'nitskiy, N. R.

TITLE: Investigation of the system  $\text{Bi}_2\text{O}_3 - \text{TiO}_2 - \text{PbO}$

PERIODICAL: Zhurnal morganicheskoy khimii, v. 8, no. 2, 1963, 384 - 388

TEXT: The binary system  $\text{Bi}_2\text{O}_3 - \text{TiO}_2$  was investigated with the aid of the fusibility method up to a content of 30 mole%  $\text{TiO}_2$ . A new congruently melting compound,  $\text{Bi}_{24}\text{TiO}_{38}$ , m.p.  $844^\circ\text{C}$ , was found, which crystallizes in a cubic body-centered lattice ( $a = 9.05 \pm 0.02 \text{ kX}$ ). Mixed with 2.5 mole%  $\text{TiO}_2$  it forms a eutectic with the m.p. at  $797^\circ\text{C}$  and containing 10.0 mole%  $\text{TiO}_2$  it forms a eutectic having the m.p. at  $821^\circ\text{C}$ . Additionally, through X-ray analysis, the compounds  $\text{Bi}_4\text{Ti}_3\text{O}_{12}$  and  $\text{Bi}_2\text{Ti}_3\text{O}_9$  were found. From dilatometric and thermographic investigations it followed that  $\text{Bi}_2\text{Ti}_3\text{O}_9$  undergoes a phase transition between 180 and  $260^\circ\text{C}$ . In the ternary system  $\text{Bi}_2\text{O}_3 - \text{TiO}_2 - \text{PbO}$  the crystallization regions of the phases  $\text{Bi}_2\text{O}_3$ ,

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Investigation of the system...

S/078/63/008/002/006/012  
B101/B186

$\text{Bi}_{24}\text{TiO}_{38}$ ,  $\text{Bi}_6\text{Pb}_2\text{O}_{11}$ ,  $\text{Pb}_2\text{TiO}_4$  and  $\text{PbO}$  were determined. For the four ternary points the following compositions were found in mole%:

	$\text{Bi}_2\text{O}_3$	$\text{TiO}_2$	$\text{PbO}$	m.p., °C
E <sub>1</sub>	63.5	0.5	36.0	680
E <sub>2</sub>	29.5	1.0	69.5	599
P <sub>1</sub>	70.0	8.0	22.0	775
P <sub>2</sub>	49.0	2.0	49.0	608

Dilatometrical, thermographical and X-ray analysis of the cross sections of  $\text{Bi}_4\text{Ti}_3\text{O}_{12}$  -  $\text{PbTiO}_3$  and  $\text{Bi}_2\text{Ti}_3\text{O}_9$  -  $\text{PbTiO}_3$  proved the formation of  $\text{Bi}_4\text{PbTi}_4\text{O}_{15}$  and of the new compound  $\text{Bi}_2\text{PbTi}_4\text{O}_{12}$ . The similarity between the powder patterns of  $\text{Bi}_2\text{PbTi}_4\text{O}_{12}$  and those of  $\text{Bi}_4\text{Ti}_3\text{O}_{12}$ ,  $\text{Bi}_4\text{PbTi}_4\text{O}_{15}$  and  $\text{Bi}_2\text{SrTi}_4\text{O}_{12}$  lead to the conclusion that  $\text{Bi}_2\text{PbTi}_4\text{O}_{12}$  too may be regarded as a ferroelectric material with laminated structure. There are 5 figures and 4 tables.

Card 2/3

Investigation of the system...

S/078/63/008/002/006/012  
B101/B186

The most important English-language reference is: E. C. Subbarao, J. Chem.  
Phys., 34, 695 (1961).

SUBMITTED: May 22, 1962

Card 3/3

BELYAYEV, I.N.; SMOLYANINOV, N.P.; KAL'NITSKIY, N.R.

Investigation of the system  $\text{Bi}_2\text{O}_3$  -  $\text{TiO}_2$  -  $\text{PbO}$ . Zhur.neorg.khim.  
8 no.2:384-388 F '63. (MIRA 16:5)  
(Bismuth oxides) (Titanium oxides) (Lead oxides)

KAL'NITSKIV, P. I., (Chief Veterinary Surgeon, Strashnensk Raion, Moldavian SSR)

In the struggle for keeping young cattle in good health

Veterinariya vol. 38, no. 10, October 1961, pp 30

KAL'NITSKIY, P.I.

Keeping young cattle in good health. Veterinaria 38 no.10:  
30-32 O '61. (MIRA 16:2)

1. Glavnyy veterinarnyy vrach Strashenskogo rayona, Moldavskoy  
SSR.  
(Strasheny District—Veterinary medicine)

STURMAN, A.V., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); BULGAKOV, Yu.N., veter. fel'dsher (Strashenskiy rayon, Moldavskaya SSR); KAL-NITSKIY, P.I., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); OCHAKOVSKIY, Z.M., veter. vrach (Strashenskiy rayon, Moldavskaya SSR); GOTSENOGA, A.D. (Strashenskiy rayon, Moldavskoy SSR); ABRAMYAN, G.I., veter. vrach; MEKHTIYEV, M.G., veter. fel'dsher (s. Shirrozlu, Vedinskogo rayona Armyanskoy SSR); KIRAKOSYAN, A.A., veter. vrach; GEORGIYEV, Yu.P., veter. vrach; LOMAKIN, A.M., nauchnyy sotrudnik; SHEPELEV, L.A., veter. vrach.; TARASOV, I.I., assistant; ROMASHKIN, V.M., veter. tekhnik; ANDRIYAN, Ye.A.; BARTENEV, V.S.; KOROL', Ye.I., veter. tekhnik; YEROSHENKO, A.K., aspirant; BANZEN, Ya.P.; SARAYKIN, I.M., prof.; ZHEVAGIN, A.N., veter. vrach; BUT'YANOV, D.D., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti BSSR); SHALYGIN, B.V., veter. vrach (Klimovichskiy rayon, Mogilevskoy oblasti, BSSR); RYABOKON, G.T., veter. fel'dsher; MOVSUM-ZADE, K.K., prof.; DUGIN, G.L., aspirant; TITOV, G.I., nauchnyy sotrudnik; MEDVEDEV, I.G., veter. vrach.; ALIKAYEV, V.A.; ALLENOV, O.A., veter. vrach.

Prophylaxis and treatment of noninfectious diseases in calves and piglets. Veterinariia 40 no.2:40-47 F '63. (MIRA 17:2)

1. Ul'yanovskaya oblastnaya veterinarno-bakteriologicheskaya laboratoriya (for Sturman). 2. Kolkhoz imeni Kirova. Volokonovskogo  
(Continued on next card)

KAL'NITSKIY, P.I.

We are improving the veterinary and zootechnical service  
on swine raising farms. Veterinaria 42 no.9:8-10 S '65.  
(MIRA 18:11)

1. Glavnnyy veterinarnyy vrach Novoanenskogo rayona Moldav-  
skoy SSR.

KAL'NITSKIY, P. T.

KAL'NITSKIY, P. T.

Sudan Grass

Concentrated sowing of Sudan grass for hay. Korm. baza 3 No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, July 1952, UNCLASSIFIED.

10.7300

S/250/62/006/002/005/007  
I028/I228

AUTHOR: Severdenko, V. P. and Kal'nitskiy, R. M.

TITLE: On the problem of determination of a plasticity criterion

PERIODICAL: Akademiya nauk Belaruskay SSR. Doklady, v. 6, no. 2, 1962, 97-99

TEXT: There being no generally accepted plasticity indicator at the present time, the authors define a criterion of plasticity  $e_{pe}$ , that characterizes the capacity of irreversible deformation without destruction of metals and, or alloys. In a deformed body, part of the macrovolumes are subjected to extension stresses, others — to compression stresses. The destruction occurring earlier in the former, the criterion is defined for the case of extension. A transition leads to a linear scheme for the stressed state, and the following expression is obtained for the plasticity criterion:

$$e_{pe} = e_e + \frac{\sigma'_e - \sigma_{oe}}{\sigma_n} \quad (2)$$

where  $e_{pe}$  = criterion of plasticity, corresponding to the value of the actual deformation which would be obtained in a monoaxial extension,  $e_e$  = limiting actual deformation on extension,  $\sigma_{oe}$  = actual rupture stress reduced to the linear scheme,  $\sigma_n$  = actual stress at the beginning of concentrated stress,  $\sigma'_e$  = actual rupture stress at monoaxial extension. Formulas are then established, on the basis of equations of the mecha-

Card 1/2